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(71) Applicant: Marconi UK Intellectual Property Ltd Coventry, CV3 1HJ (GB)

(72) Inventor: Butler, Graham Chilwell, Nottingham NG9 5DA (GB)

(74) Representative: Hoste, Colin Francis **Marconi Intellectual Property Crompton Close** Basildon, Essex SS14 3BA (GB)

## (54)High dynamic range error rate monitor

(57)There is provided an error rate monitor (10) incorporating a counter (30) which is incremented as errors are detected in a data stream passing through an interface unit (20) connected to the counter (30). The counter (30) is also simultaneously decremented at a rate proportional to an exponential of a value presently

stored in the counter (30). The monitor (10) thereby provides from the value stored in the counter (30) a measure of error rate in the data stream, the value substantially proportional to a logarithm of error rate in the data stream, thereby providing the monitor (10) with a relatively large error rate monitoring dynamic range.

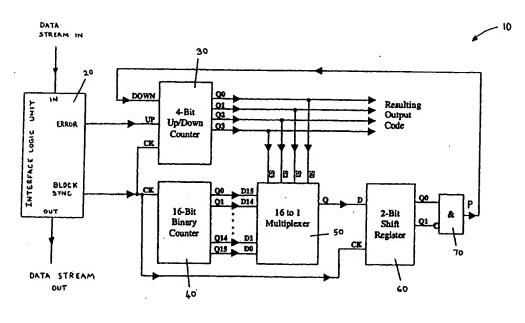


Fig. 1



## **EUROPEAN SEARCH REPORT**

Application Number EP 00 30 9891

Category	Citation of document with it				
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CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure		E : earlier patent doct after the filling date ner D : document cited in L : document cited on	T: theory or principle underlying the Invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons  A: member of the same patent family, corresponding		

## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 9891

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-02-2004

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b For more details about this annex : see Official Journal of the European Patent Office, No. 12/82